

① 2/15/2010 Memo to Kevin Reilly

From Jerry Dayian  
Maker wells Treatment Plant  
packed tower aeration remove VOC  
off line 1989-90, chlorinated solvent

Treatment plant on-line 1993  
No MCL exceedances since 1993  
detects in 2/98, 3/99, 11/99, 5/08,  
12/08, 6/10

No VOC treatment done in any other wells

② 2/11/11 Mike Dunk to  
Kevin Reilly

Mid 80s ground H<sub>2</sub>O contam coming off ⑤  
through Airport + Industrial Park  
from a foam blower using Freon  
+ degreasers from Fire Training Acad.  
emy, + gas + oil tank farms + a  
tee shirt screen printer(s) near  
Maker wells.  
contamination came in waves (1.5 ft/day)

③

PER 2009

Treatment of Maker Wells  
SWAP "HIGH"

"commended by DEP"

protecting ZONE II areas + I  
PCE 0.87 → NO WAIT

1/11/2011 Mc Clelland to  
Downing  
Silent Spring Study

Untreated raw water 20 well through  
out the Cape Oct 2009 collected  
tested 92 Emerging contaminants  
18 wells detected at least 1 contaminant  
9 Pharms, 1 insect repellent, 2 PFOs  
1 alkylphenol, 5 flame retardant  
★ 84% of 92 not detected

- ★ • Septic Systems are likely primary source  
..... Other sources also may be important
- Airport may be source of 2 PFO from  
2 wells + dist system
- Other studies ~~show~~ ground  $H_2O$  downgradient  
of airports can be contaminated by  
PFOs found in fire fighting foams
- Construction activities may also be a  
source of certain organophosphate flame  
retardants ①
- Guideline not exceeded; "NOT enforced  
but provide a recommended level  
designed to protect human health."





FW: Citizen's Complaint of BMA/Hyannis CWS

Dayian, Therese (DEP) to: Kevin Reilly

Cc: "DeLorenzo, David (DEP)", "Hobill, Jonathan (DEP)", "Rondeau, Richard (DEP)"

02/15/2011 12:09

1 attachment



10-002-1084 Cape Cod SSA.pdf

Hi Kevin,

You are correct that the Maier Treatment Plant, which treats the Maier Wells 1, 2 & 3, uses packed tower aeration to remove VOCs. Below is some information that I had pulled together for a prior request from Silent Springs, via Nick Anastas. I'm sure it's more information than you might need, but figured you can always delete what you don't need.

From what I can view in our database, the Maier wells were taken off line in late 1989/early 1990 due to contamination by chlorinated solvents. There are number of test results showing contaminant detections. In order to get actual concentrations of each contaminant, you'd need to request the microfilm at the Boston office for the years 1989/1990 for Maier 1-3 (Location codes 10004, 10005 and 10006). Also, keep in mind that although they were sampling the wells, they were off-line and not going into the system at that point. There are footnotes in the comment fields indicating that the wells are off line.

In 1993, the treatment plant went on line, and I was able to view all treatment plant test results since that time. There are no raw water samples results shown in WQTS for the individual wells, just finished water.

Treatment plant VOC results show the following detections in the finished water since 1993. All other finished water samples were ND.

MTBE	- 0.9 ppb	- collected on	2/13/98	_____
MTBE	- 4.0 ppb	-	3/10/99	_____
MTBE	- 2.9 ppb	-	11/2/99	_____
MTBE	- 0.64 ppb	-	5/28/08	_____
Dichlorodifluoromethane	- 5.6 ppb	- collected on	12/1/08	(ORSG = 1.4 ppm)
MTBE	- 0.71 ppb	- collected on	6/7/10	_____

The Hyannis Water System also has three other treatment plants (Mary Dunn Treatment Plant, Straightway Treatment Plant and Hyannisport Treatment Plant). None of these plants provide VOC removal, or have had violations for Maximum Contaminant Level exceedance. All treat for iron/manganese removal via sequestration, and corrosion control via a combination of sodium hydroxide and zinc orthophosphate.

To my knowledge, the system has not exceeded any Maximum Contaminant Levels for VOCs or any other contaminant, based on a review of our database.

With regard to the allegations in the attached complaint, I do know that our Bureau of Waste Site Cleanup is aware of, and previously directly oversaw the assessment and remediation of the airport site. There is no evidence to suggest that the contaminants referenced in the attachment have impacted the public water supplies from that site.



Re: A message from MQ  
michaelquink  
to:  
Kevin Reilly  
02/11/2011 12:40 PM  
Show Details

(2)

Kevin,

(b) (6)

In regards to Hyannis I am going to provide you with some comments that may or may not be helpful to you.

It goes back to my air pollution days (1984) when groundwater contamination was coming off or through the Barnstable Airport from the Industrial Park from a foam blower ( using Freon ) and degreasers, from the Fire Training Academy and due to leaks and spills from gas and oil tank farms, and tee shirt screen printers (soft as a grape) located near the Hyannis Maher Wells. The Barnstable Water Company\ Hyannis Water system installed an air stripper to knock out some of the VOC's that seemed to be coming in waves over time. That is to say if there was a spill in 1985 we would see it at the wells in 1988 based on time of travel of 1.5 feet per day.....

Site of VOC source

When the Town of Barnstable purchased the Hyannis Water System (then the Former Barnstable Water Company ) from the private owner George Wadsworth much was made by some in the community if in fact the Town did due diligence because the price tag was 26 million and then they found out they needed another 50 million to fix it up to todays standards ....How could they spend so much money for a system that needs so much work.... Wadsworth ran the system into the ground but was able to recover a ton of money as he owned a lot of land protecting the wells which he did sell off

Please know there are a lot of factions in the mix when you are dealing with issues at the Airport, Drinking Water and Wastewater . Some folks did not want the airport expansion.... Some folks complain about air traffic and noise and pollution from its operations. They have some issues there as well but they are working to make things better .

Recently there has been some buzz that Hyannis Water System should be shut down and the other water districts serving the community should be interconnected and reorganized such that one water supply system be set up and operated to provide water over the entire community rather than having individual systems such as Barnstable Fire District, COMM Fire District, Cotuit Water and Fire District, and the Hyannis system all being operated as separate systems. This is major sticking point to some. That is to say why does Barnstable need multiple fire departments, water departments and the expense of running those systems? What happens to this mix once you start adding wastewater issues into the mix.

You need to be careful in you dealings with Gary Lopez and others in his group so that they don't twist or take out of context any comments may make to them from a drinking water point